

What is claimed is:

1. A cooling media pack comprising:  
a plurality of alternating sheets each of which comprises:  
a plurality of ridges; and  
a plurality of voids,  
wherein each sheet has an undulating shape, wherein the ridges of every other sheet are oriented substantially in a first direction, wherein the ridges of the adjacent sheets are oriented substantially in a different direction, and wherein the cooling media is adapted to be used in film-fill and splash-fill cooling towers.
2. The cooling media pack according to claim 1, wherein a ratio of the area occupied by the voids to the surface area of the sheets is between about 0.20:1 and about 0.75:1.
3. The cooling media pack according to claim 2, wherein the ratio is about 0.315:1.
4. The cooling media pack according to claim 1, wherein the cooling media pack is adapted to enable water droplets to drop substantially vertically through voids in at least two consecutive ridges in a sheet.
5. The cooling media pack according to claim 1, wherein each of the ridges comprises a peak and a trough, and wherein the peaks of one sheet are joined to the troughs of a sheet adjacent to it.
6. The cooling media pack according to claim 5, wherein the ridges of each of the sheets are oriented at an angle between about 20° and about 50°, with respect to the horizontal.
7. The cooling media pack according to claim 5, wherein the ridges of each of the sheets are oriented at an angle of about 26.6°, with respect to the horizontal.
8. The cooling media pack according to claim 1, wherein the voids have substantially similar sizes and shapes.

9. The cooling media pack according to claim 8, wherein the shape of the voids is selected from the group consisting of circles, triangles, squares, diamonds, rectangles, hexagons, ovals, and teardrops.

10. The cooling media pack according to claim 1, wherein each of the sheets is formed from a material selected from the group consisting of plastic, metal, tile, paper, and ceramic.

11. The cooling media pack according to claim 10, wherein the plastic is PVC, HPVC, or CPVC.

12. The cooling media pack according to claim 1, wherein the cooling media pack is adapted to promote upward airflow therethrough, and wherein the airflow is substantially vertical.

13. The cooling media pack according to claim 1, wherein if the cooling tower is a film-fill cooling tower, the film-fill cooling tower is either a counter-flow or cross-flow cooling tower.

14. A cooling media pack comprising:  
a plurality of alternating sheets each of which comprises:  
    a plurality of ridges; and  
    a plurality of voids,  
wherein each sheet has an undulating shape, wherein the ridges of every other sheet are oriented substantially in a first direction, wherein the ridges of the adjacent sheets are oriented substantially in a different direction, and wherein a ratio of the area occupied by the voids to the surface area of the sheets is between about 0.20:1 and about 0.75:1.

15. The cooling media pack according to claim 14, wherein the ratio is about 0.315:1.

16. The cooling media pack according to claim 14, wherein each of the ridges comprises a peak and a trough, and wherein the peaks of one sheet are joined to the troughs of a sheet adjacent to it.

17. The cooling media pack according to claim 16, wherein the ridges of each of the sheets are oriented at an angle between about 20° and about 50°, with respect to the horizontal.

18. The cooling media pack according to claim 16, wherein the ridges of each of the sheets are oriented at an angle of about 26.6°, with respect to the horizontal.

19. The cooling media pack according to claim 14, wherein the voids have substantially similar sizes and shapes.

20. The cooling media pack according to claim 14, wherein each of the sheets is formed from a material selected from the group consisting of plastic, metal, tile, paper, and ceramic.

21. A cooling media pack comprising:

a plurality of alternating sheets each of which comprises:

a plurality of ridges; and

a plurality of voids,

wherein each sheet has an undulating shape, wherein the ridges of every other sheet are oriented substantially in a first direction, wherein the ridges of the adjacent sheets are oriented substantially in a different direction, and wherein the cooling media pack is adapted to inhibit the formation and/or accumulation of bacteria on the sheets.

22. The cooling media pack according to claim 21, wherein a ratio of the area occupied by the voids to the surface area of the sheets is between about 0.20:1 and about 0.75:1.

23. The cooling media pack according to claim 22, wherein the ratio is about 0.315:1.

24. The cooling media pack according to claim 21, wherein the voids have substantially similar sizes and shapes.

25. The cooling media pack according to claim 21, wherein each of the ridges comprises a peak and a trough, and wherein the peaks of one sheet are joined to the troughs of a sheet adjacent to it.

26. The cooling media pack according to claim 25, wherein the ridges of each of the sheets are oriented at an angle between about 20° and about 50°, with respect to the horizontal.

27. The cooling media pack according to claim 25, wherein the ridges of each of the sheets are oriented at an angle of about 26.6°, with respect to the horizontal.

28. The cooling media pack according to claim 21, wherein each of the sheets is formed from a material selected from the group consisting of plastic, metal, tile, paper, and ceramic.